



**MISSOURI DEPARTMENT OF TRANSPORTATION
MATERIALS
Jefferson City, Missouri
Test Method
MODOT T 77
DETERMINING THE BINDER IGNITION ASPHALT CALIBRATION
FACTOR FOR MIXTURES CONTAINING RAP**

1.0 SCOPE. This test method describes procedures for determining the binder ignition oven asphalt calibration factor for mixtures containing Reclaimed Asphalt Pavement (RAP).

1.2 This test method describes the procedure for preparation of materials specimens for use in AASHTO T308.

2.0 PROCEDURE

2.1 PERCENT OF ASPHALT BINDER IN RAP

2.1.1 In lieu of using prepared samples at the design asphalt content, as specified is section 6.3 of AASHTO T308, substitute 100% RAP.

2.1.2 Determine the asphalt binder content (A) in accordance with section 6 of AASHTO T308. Mass of residual aggregate is considered as 100%, therefore correction factor is considered as zero.

2.2 PERCENT OF ASPHALT BINDER IN VIRGIN MIXTURE

2.2.1 In lieu of using prepared samples at the design asphalt content, as specified is section 6.3 of AASHTO T308, substitute the virgin aggregate blend at the virgin asphalt content.

2.2.2 Determine the correction factor (B) for the virgin mixture in accordance with section 6 of AASHTO T308.

2.3 CALIBRATION FACTOR FOR RAP MIXTURE

2.3.1 Calculate the calibration factor for the RAP mixture C_F as follows:

$$C_F = B + (\%RAP^1)(A)$$

¹ %RAP from Job Mix Formula in decimal format (i.e. 15% = 0.15)